BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

ame of Work:Improvements to roads ,drains and footpath at RTO complex road ,15th B ross and 14th B cross at B sector in Ward no 04

						Estimate Amount :	9900000.00	
SL No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
	Removing BS Slab of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	Existing Cover slab								
	Around RTO Complex								
	Ch: (0 - 30)		1	30	1.80		54.00		
	Ch: (30 - 105)		1	75	1.80		135.00		
	Deduction for missing stretch (6 = 6)		-1	6	1.80		-10.80		
	Ch: (105 - 135)		1	30	1.80		54.00		
	Ch: (135 - 213)		1	78	1.80		140.40		
	7th main road								
	Ch: (0 - 367)	L/s	1	367	1.20		440.40		
	Ch: (0 - 367)	R/s	1	367	1.20		440.40		
	Deduction for Cross roads (57.5-50.5)+(168-162)+(279.5-272.5)+(320.5-313.5)+(345-341) = 31		-1	31	1.20		-37.20		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205	1.20		246.00		
	Ch: (0 - 90)	R/s	1	90	1.20		108.00		
	Ch: (90 - 205)	R/s	1	115	0.90		103.50		
	Deduction for Cross roads 7 = 7		-1	7	1.20		-8.40		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312	0.90		280.80		
	Deduction for Cross roads (54-47)+(91-84) = 14		-1	14	0.90		-12.60		
	Ch: (0 - 312)	R/s	1	312	0.90		280.80		
	Deduction for Cross roads (172-167) = 5		-1	5	0.90		-4.50		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		2	222	0.90		399.60		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		2	368	1.20		883.20		
	Deduction for Cross roads 8+9 = 17)		-1	17	1.20		-20.40		
							3472.20	**63.72**	**221248.58**
	Refixing Stone Slabs of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
		Sqm							
	Existing Cover slab								
	Around RTO Complex								
	Ch: (0 - 30)		1	30	1.80		54.00		
	Ch: (30 - 105)		1	75	1.80		135.00		
	Deduction for missing stretch (6 = 6)		-1	6	1.80		-10.80		
	Ch: (105 - 135)		1	30	1.80		54.00		
	Ch: (135 - 213)		1	78	1.80		140.40		
							372.60		
	Deduction for damaged 5%						**-18.63**		
	7th main road								
	Ch: (0 - 367)	L/s	1	367	1.20		440.40		
	Ch: (0 - 367)	R/s	1	367	1.20		440.40		
	Deduction for Cross roads (57.5-50.5)+(168-162)+(279.5-272.5)+(320.5-313.5)+(345-341) = 31)		-1	31	1.20		-37.20		
							843.60		
	Deduction for damaged 20%						**-168.72**		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205	1.20		246.00		
	Ch: (0 - 90)	R/s	1	90	1.20		108.00		
	Ch: (90 - 205)	R/s	1	115	0.90		103.50		
	Deduction for Cross roads 7 = 7)		-1	7	1.20		-8.40		
							449.10		
	Deduction for damaged 20%						**-89.82**		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312	0.90		280.80		
	Deduction for Cross roads (54-47)+(91-84) = 14)		-1	14	0.90		-12.60		
	Ch: (0 - 312)	R/s	1	312	0.90		280.80		
	Deduction for Cross roads (172-167) = 5)		-1	5	0.90		-4.50		
							544.50		
	Deduction for damaged 20%						**-108.90**		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		2	222	0.90		399.60		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		2	368	1.20		883.20		
	Deduction for Cross roads 8+9 = 17)		-1	17	1.20		-20.40		
							1262.40		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deduction for damaged 20%						-252.48		
							2833.65	78.84	223404.97
3	Providing precast slab of **100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- **Data rate**								
	7th main road	**Sqm**							
	for damaged 20%						168.72		
	14th B cross from 7th B main to 10th B main								
	for damaged 20%						89.82		
	15th B cross from 12th B main to 7th main								
	Deduction for damaged 20%						108.90		
	11th B main road from 15th B cross to 11th B cross								
	6th B main road from 9th B cross to 16th B cross						252.48		
							619.92	**1834.00**	**1136933.28**
4	Providing precast slab of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- **Data rate**								
	Around RTO Complex	**Sqm**							
	Ch: (30 - 105)	1	6	1.80			10.80		
	Deduction for missing stretch (6 - 6)						168.72		
	for damaged 5%						**179.52**	**5111.00**	**917526.72**
5	KSRB 5-9 : Providing **chamfering edges t**o stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13**(Page No 24., I.No.5.22 of KPWD S.R 2015-16).**								
	Taking Reflxing area	**m**							
	Around RTO Complex								
	343.17 / (1.8*0.6) = 318)	318	4.8				1526.40		
	(4.8 - 1.8+1.8+0.6+0.6)						**1526.40**	**35.64**	**54400.90**
6	KSRB 5-9 : Providing **Machine cutting** to granite stone slabs edge all four sides to get plain even surface, the work includes the cost of cutting blades, hire charges of cutting machine, Generator and including cost of all labour, materials (Excluding cost of BS slabs) HOM of machineries, with all lead and lift charges, loading and unloading charges etc., complete as per the direction of the Engineer-in-charge of the work								
	Taking Reflxing area	**m**							
	*343.17 / (1.8*0.6) = 318)*	318	4.8				1526.40		
	(4.8 - 1.8+1.8+0.6+0.6)								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
							1526.40	60.00	91584.00
7	KSRB 5-8.2 : Providing **two line dressing** to granite stone slab / granite stone masonry as per specifications. **(Page No 24., I.No.5.18 of KPWD S.R 2015-16).**								
		Sqm							
	Taking Refixing area								
			1	343.17			343.17		
							343.17	**924.48**	**317253.80**
8	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	Around RTO Complex								
	Ch: (0 - 30)	L/s	1	30	0.60	0.800	14.40		
	Ch: (30 - 105)	L/s	1	75	0.60	0.800	36.00		
	Ch: (105 - 135)	R/s	1	30	0.60	0.800	14.40		
	Ch: (135 - 213)	R/s	1	78	0.60	0.800	37.44		
	7th main road								
	Ch: (0 - 367)	L/s	1	367	0.50	0.800	146.80		
	Ch: (0 - 367)	R/s	1	367	0.50	0.800	146.80		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205	0.60	0.800	98.40		
	Ch: (0 - 90)	R/s	1	90	0.60	0.800	43.20		
	Ch: (90 - 205)	R/s	1	115	0.50	0.800	46.00		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312	0.50	0.700	109.20		
	Ch: (0 - 312)	R/s	1	312	0.50	0.700	109.20		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		2	222	0.60	0.800	213.12		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		2	368	0.60	0.800	353.28		
	Deduction for Cross roads 8+9 = 17)		-1	17	0.60	0.800	-8.16		
							1360.08	**177.88**	**241931.03**
9	**KSRRB M200-15.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry,** cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.MORTH Specification No. 202 **(Page No 137., I.No.18.27 of KPWD S.R 2015-16).**								
		Cum							
	Damaged Portion								
	Around RTO Complex								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 30)	L/s	2	15	0.45	0.250	3.38		
	Ch: (30 - 105)	L/s	2	50	0.45	0.250	11.25		
	Ch: (105 - 135)	R/s	2	15	0.45	0.250	3.38		
	Ch: (135 - 213)	R/s	2	55	0.45	0.250	12.38		
							30.38	**345.62**	**10498.21**
10	**Providing and constructing granite / trap / basalt size stone masonry(with available stones)** in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **-Rate Analysis**								
		Cum							
	Taking 60% of the availble qty								
							18.23		
							18.23	**2709.72**	**49384.65**
11	**KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,** stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page No 23., I.No.5.6 of KPWD S.R 2015-16).**								
		Cum							
	Around RTO Complex								
	Ch: (0 - 30)		2	15	0.45	0.450	6.08		
	Ch: (30 - 105)		2	50	0.45	0.450	20.25		
	Ch: (105 - 135)		2	15	0.45	0.450	6.08		
	Ch: (135 - 213)		2	55	0.45	0.650	32.18		
	Deduction of availlable stones						-18.23		
							46.35	**4135.32**	**191672.08**
12	**1 KSRB 15.1.1 Providing flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(Page No 112., I.No.15.1 of KPWD S.R 2015-16).**								
		Sqm							
	Around RTO Complex								
	Ch: (0 - 30)		2	15		0.450	13.50		
	Ch: (30 - 105)		2	50		0.450	45.00		
	Ch: (105 - 135)		2	15		0.450	13.50		
	Ch: (135 - 213)		2	55		0.650	71.50		
							143.50	**99.36**	**14258.16**
13	**KSRB 4-1.6 ;** Providing and laying in position plain cement concrete of mix **1:2:4 with cement @ 240kgs, with 20mm** and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**								
		Cum							
	COPING -SSM								
	Around RTO Complex								
	Ch: (0 - 30)		2	30	0.45	0.075	2.03		
	Ch: (30 - 105)		2	75	0.45	0.075	5.06		
	Ch: (105 - 135)		2	30	0.45	0.075	2.03		
	Ch: (135 - 213)		2	78	0.45	0.075	5.27		
	Packing concrete								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Around RTO Complex								
	Ch: (0 - 30)		1	30	0.15	0.150	0.68		
	Ch: (30 - 105)		1	75	0.15	0.150	1.69		
	Ch: (105 - 135)		1	30	0.15	0.150	0.68		
	Ch: (135 - 213)		1	78	0.15	0.150	1.76		
	7th main road								
	Ch: (0 - 367)	L/s	1	367	0.15	0.150	8.26		
	Ch: (0 - 367)	R/s	1	367	0.15	0.150	8.26		
	Deduction for Cross roads (57.5-50.5)+(168-162)+(279.5-272.5)+(320.5-313.5)+(345-341) = 31)		-1	31	0.15	0.150	-0.70		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205	0.15	0.150	4.61		
	Ch: (0 - 90)	R/s	1	90	0.15	0.150	2.03		
	Ch: (90 - 205)	R/s	1	115	0.15	0.150	2.59		
	Deduction for Cross roads 7 = 7)		-1	7	0.15	0.150	-0.16		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312	0.15	0.150	7.02		
	Deduction for Cross roads (54-47)+(91-84) = 14)		-1	14	0.15	0.150	-0.32		
	Ch: (0 - 312)	R/s	1	312	0.15	0.150	7.02		
	Deduction for Cross roads (172-167) = 5)		-1	5	0.15	0.150	-0.11		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		2	222	0.10	0.150	6.66		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		2	368	0.10	0.150	11.04		
	Deduction for Cross roads 8+9 = 17)		-1	17	0.10	0.150	-0.26		
							75.11	**5490.72**	**412421.71**
14	Removing and resetting of kerb stones **(Page No 258., I.No.37.57 of KPWD S.R 2015-16).**								
		m							
	7th main road								
	Ch: (0 - 367)	L/s	1	367			367.00		
	Ch: (0 - 367)	R/s	1	367			367.00		
	Deduction for Cross roads (57.5-50.5)+(168-162)+(279.5-272.5)+(320.5-313.5)+(345-341) = 31)		-1	31			-31.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deduction for Missing length (270-240)+(367-320) = 77)		-1	77			-77.00		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205			205.00		
	Ch: (0 - 90)	R/s	1	90			90.00		
	Ch: (90 - 205)	R/s	1	115			115.00		
	Deduction for Cross roads 7 = 7)		-1	7			-7.00		
	Deduction for Missing length (180-30) = 150)		-1	150			-150.00		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312			312.00		
	Deduction for Cross roads (54-47)+(91-84) = 14)		-1	14			-14.00		
	Deduction for Missing length (120-30)+(270-210) = 150)		-1	150			-150.00		
	Ch: (0 - 312)	R/s	1	312			312.00		
	Deduction for Cross roads (172-167) = 5)		-1	5			-5.00		
	Deduction for Missing length (240-30)+(270-312) = 168)		-1	168			-168.00		
	Deduction for damaged 25%						**1166.00**		
							-291.50		
							874.50	**63.72**	**55723.14**
15	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. **(Page No 25., I.No.5.30 of KPWD S.R 2015-16).**								
		Nos							
	Around RTO Complex								
	Ch: (0 - 30)		1	30			67.00		
	Ch: (30 - 105)		1	75			167.00		
	Ch: (105 - 135)		1	30			67.00		
	Ch: (135 - 213)		1	78			173.00		
	7th main road								
	Ch: (0 - 367)	R/s							
	for Missing length (270-240)+(367-320) = 77)		1	77			171.00		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	R/s							
	for Missing length (180-30) = 150)		1	150			333.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s							
	Deduction for Missing length (120-30)+(270-210) = 150)		1	150			333.00		
	Ch: (0 - 312)	R/s							
	Deduction for Missing length (240-30)+(270-312) = 168)		1	168			373.00		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 102)	L/s	1	102			227.00		
	Ch: (0 - 160)	R/s	1	160			356.00		
	For Damaged 20%		1	291.5			648.00		
							2915.00	**320.76**	**935015.40**
	ROAD WORKS								
16	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Dipression Filling								
	7th main road								
	Ch: (0 - 367)		1	30	1.50	0.375	16.88		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50	0.375	11.25		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.00	0.375	3.75		
							31.88	**143.32**	**4568.33**
17	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No 148., I.No.19.64 of KPWD S.R 2015-16).**								
		Sqm							
	Dipression Filling								
	7th main road								
	Ch: (0 - 367)		1	30	1.50		45.00		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50		30.00		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.00		10.00		
							85.00	**4.86**	**413.10**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
18	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Dipression Filling								
	7th main road								
	Ch: (0 - 367)		1	30	1.50	0.150	6.75		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50	0.150	4.50		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.00	0.150	1.50		
							12.75	**1622.16**	**20682.54**
19	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 157., I.No.20.18 of KPWD S.R 2015-16).**								
		Cum							
	Dipression Filling								
	7th main road								
	Ch: (0 - 367)		1	30	1.50	0.225	10.13		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50	0.225	6.75		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.00	0.225	2.25		
							19.13	**1713.96**	**32779.49**
20	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 160., I.No.21.6 of KPWD S.R 2015-16).**								
		Sqm							
	Dipression Filling								
	7th main road								
	Ch: (0 - 367)		1	30	1.50		45.00		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50		30.00		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.00		10.00		
							85.00	**32.40**	**2754.00**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
21	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	7th main road								
	Ch: (0 - 367)		1	367	6.50		2385.50		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	205	6.70		1373.50		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	312	6.50		2028.00		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		1	222	5.50		1221.00		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		1	368	6.50		2392.00		
							9400.00	**3.24**	**30456.00**
22	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	7th main road								
	Ch: (0 - 367)		1	367	6.50		2385.50		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	205	6.70		1373.50		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	312	6.50		2028.00		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		1	222	5.50		1221.00		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		1	368	6.50		2392.00		
							9400.00	**15.12**	**142128.00**
23	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	Dipression Filling								
	7th main road								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 367)		1	30	1.50	0.050	0.23		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	20	1.50	0.050	0.15		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	10	1.50	0.050	0.08		
	Profile correction/Damaged portion								
	7th main road								
	Ch: (0 - 367)		1	70	3.00	0.050	10.50		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	65	2.50	0.050	8.13		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	75	2.00	0.050	7.50		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		1	35	2.50	0.050	4.38		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		1	65	2.50	0.050	8.13		
							39.08	**7927.20**	**309755.34**
24	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	7th main road								
	Ch: (0 - 367)		1	367	6.50	0.040	95.42		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		1	205	6.70	0.040	54.94		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		1	312	6.50	0.040	81.12		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		1	222	5.50	0.040	48.84		
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		1	368	6.50	0.040	95.68		
							376.00	**9822.60**	**3693297.60**
	ROAD FURNITURES								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
25	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8**(Page No 179, I.No.24.1 of KPWD S.R 2015-16).**								
	Kerb Painting	**Sqm**							
	7th main road								
	Ch: (0 - 367)	L/s	1	367		0.300	110.10		
	Ch: (0 - 367)	R/s	1	367		0.300	110.10		
	Deduction for Cross roads (57.5-50.5)+(168-162)+(279.5-272.5)+(320.5-313.5)+(345-341) = 31)		-1	31		0.300	-9.30		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)	L/s	1	205		0.300	61.50		
	Ch: (0 - 90)	R/s	1	90		0.300	27.00		
	Ch: (90 - 205)	R/s	1	115		0.300	34.50		
	Deduction for Cross roads 7 = 7)		-1	7		0.300	-2.10		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)	L/s	1	312		0.300	93.60		
	Deduction for Cross roads (54-47)+(91-84) = 14)		-1	14		0.300	-4.20		
	Ch: (0 - 312)	R/s	1	312		0.300	93.60		
	Deduction for Cross roads (172-167) = 5)		-1	5		0.300	-1.50		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 102)	L/s	1	102		0.300	30.60		
	Ch: (0 - 160)	R/s	1	160		0.300	48.00		
							591.90	**61.56**	**36437.36**
26	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								
	Road Marking	**Sqm**							
	7th main road								
	Ch: (0 - 367)		2.5	367	0.15		137.63		
	14th B cross from 7th B main to 10th B main								
	Ch: (0 - 205)		2.5	205	0.15		76.88		
	15th B cross from 12th B main to 7th main								
	Ch: (0 - 312)		2.5	312	0.15		117.00		
	11th B main road from 15th B cross to 11th B cross								
	Ch: (0 - 222)		2.5	222	0.15		83.25		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	6th B main road from 9th B cross to 16th B cross								
	Ch: (0 - 368)		2.5	368	0.15		138.00		
							552.75	473.04	261472.86
	Sub Total								9408001.24
27	Cost towards Design Report and Detailed Estimate,PMC/Third party								94080.01
28	Cost of Plastic@ 8% of bitumen qty for BC	Kg	1	4241.28				27.00	114514.56
29	Cost towards DLP and contigencies								282240.04
30	Miscllenous and other charges								1164.15
	Grand Total								9900000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-04
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP